YCB6-125 series

MINIATURE CIRECUIT BREAKER INSTRUCTION OPERATION INSTRUCTION Standard: IEC 60947-2, IEC 60898-1



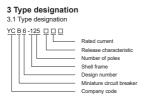
Before installing and using this product, please read this manual carefully and pay more attention to safety.

YCB6-125 Series Miniature Cirecuit Breaker Instruction 1 General

YCB1-125 miniature circuit breaker(circuitbreaker) is applicable to the circuit with AC50 Hz/60Hz, rated voltage of no more than400 V, and rated current from 6A to 125Afor overload protection and short circuit protection. This product can be applied to various places such as industrial, commercial, tall buildings, and residential houses. Standard: IEC 60947-2, IEC 60898-1.

2 Operating conditions

- Ambient air temperature -5°C~+40°C (with daily average ≤ 35°C)
- 2. 2 Altitude: ≤2000m.
- 2. 3 Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature 0f+40°C. For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is +20°C, special measures should be taken to occurrence of condensation.
- 2.4 The installation category is III.
- 5 The circuit breaker shall be installed on DIN rail EN 60715(35mm), which shall meet the A1.1 TH 35-7.5 steel mounting rail requirements.
- 2.6 Pollution grade: 3
- 7 Mounting conditions: inclination between mounting plane and vertical plane not exceed±5°.
- 8 The product should locate in the places where there are no obvious impact and shake.



3.2 The basic specifications and main technical parameters of the circuit breaker are shown in Table 1; The overcurrent protection characteristics are shown in Table 2.

Table 1

Ui	Uimp	Number of poles	Rated frequency Hz	Rated voltage Ue	Rated current In	Thermo- magnetic release characteristic	Rated short circuit breaking capacity Icn
500V	6kV	1P/2P	50/60	AC230V/ 400V	6,16,20,2 5,32,40,5	(8~12)In	6kA
		3P/4P	AC400V	0,63,80,1 00,125A	B,C,D	DKA	

Table 2-1 IEC 60947-2

Test	Rated current	Test current	Initial status	Time limit for tripping or not tripping	Expected result	Remarks
а		1.05ln	cold state	t≥1h(In≤63A) t≥2h(In>63A)	Not tripping	current increase
ь	63A 80A	1.30In	Right after test number a	t<1h(Ins63A) t<2h(In>63A)	Tripping	steadily within 5s
с	100A 125A	8In	cold state	t≥0.2s	Not tripping	Turn on the power supply by closing the auxiliary switch
d		12In	cold state	t<0.2s	Not tripping	Turn on the power supply by closing the auxiliary switch

Note: The terminology "Cold state" means that the test is performed at the base calibration temperature with no load prior to the test.

3.3 Mechanical and Electrical life Electrical life: 1500 times Mechanical life: 8000 times 3.4 Wire connection Before installation, check whether technical parameter of the circuit breaker is in conformity with user's requirement. The conductor of power supply shall be connected to the up terminal of circuit breaker. During installation, the tightening torque is max 3.5–5N·m.

Remarks	current increase stradity within 5s						Turn m on the power supply by do sing the auxiliary switch	Turn on the power supply by dosing the audilary switch
Testing environment temperature		30°C~35°C						
Expected result	Not tripping		Tripping		Tripping		Not tripping	Tripping
Time limit for tripping or not tripping	ts1h(Ins63A)	ts2h(In>63A)	ts1h(Ins63A)	ts2h(n>63A)	1 s <t<60s (Ins32A)</t<60s 	1s <t<120s (In> 32A)</t<120s 	ts0.1s	t<0.1s
Initial status	Cold state		Right after test number a		Cold state		Cold state	Cold state
Test current	1.13In		B,C,D 1.45In		B,C,D 2.55In		3In 5In 10In	5In 10In 14In
Type B,C,D		B,C,D		B,C,D		B,C,D	B,C,D	
Test		م ہ		o		σ		

Table 2-2 IEC 60898-1

Note: The terminology "Cold state" means that the test is performed at the base calibration temperature with no load prior to the test. 4 Overall and mounting dimensions(mm)

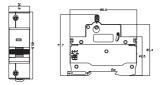


Fig.1 overall and mounting dimensions



Fig.2 DIN rail IH35-7.5 dimensions

5 Ordering instruction

- 5.1 When ordering, the customer shall indicate product type, tripping curve, rated current, number of poles, accessories and quantity of the circuit breaker. For example: YCB6-125 3P C 125A 1000pcs.
- Customers can negotiate separately if you have special requirements.

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Product Model: YCB6-125 series Standard: IEC 60947-2, IEC 60898-1							
Inspector: CNC 001							
Production date: Printed on the product							
IC CNC Chorpackage C CNC							
This product is qualified according							
to the deliveryinspection NC CNC							

CNC ELECTRIC

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